

The National Assessment of Educational Progress (NAEP) assesses mathematics in five content areas: number sense, properties, and operations; measurement; geometry and spatial sense; data analysis, statistics and probability; and algebra and functions. The NAEP mathematics scale ranges from 0 to 500.

Overall Mathematics Results for South Dakota	Student Percentage at NAEP Achievement Levels
<ul style="list-style-type: none"> <li>In 2003, the average scale score for fourth-grade students in South Dakota was 237.</li> <li>South Dakota's average score (237) in 2003 was higher<sup>1</sup> than that of the nation's public schools (234).</li> <li>Of the 53 states and jurisdictions<sup>2</sup> that participated in the 2003 fourth-grade assessment, students' average scale scores in South Dakota were higher than those in 22 jurisdictions, not significantly different from those in 22 jurisdictions, and lower than those in 8 jurisdictions.</li> <li>The percentage of students in South Dakota who performed at or above the NAEP <i>Proficient</i> level was 34 percent in 2003. The percentage of students in South Dakota who performed at or above the <i>Basic</i> level was 82 percent.</li> </ul>	<p><b>South Dakota (Public)</b> 2003: 18% Below Basic, 48% Basic, 31% Proficient, 3% Advanced</p> <p><b>Nation (Public)</b> 2003: 24% Below Basic, 45% Basic, 28% Proficient, 4% Advanced</p> <p>Percentage below <i>Basic</i> and at <i>Basic</i>   Percentage at <i>Proficient</i> and <i>Advanced</i></p> <p>■ below <i>Basic</i> □ <i>Basic</i> ■ <i>Proficient</i> ■ <i>Advanced</i></p> <p><b>NOTE:</b> The NAEP mathematics scale ranges from 0 to 500, with the achievement levels corresponding to the following points: <i>Below Basic</i>, 213 or lower; <i>Basic</i>, 214-248; <i>Proficient</i>, 249-281; <i>Advanced</i>, 282 or above.</p>

Performance of NAEP Reporting Groups in South Dakota						
Reporting groups	Percentage of students	Average Score	Percentage of students at			
			Below <i>Basic</i>	<i>Basic</i>	<i>Proficient</i>	<i>Advanced</i>
Male	51	239↑	16↓	47↑	33↑	4
Female	49	235↑	20↓	50	29	2
White	84↑	241↓	13	49↑	35	3↓
Black	1↓	---	---	---	---	---
Hispanic	2↓	223	37	43	17	2
Asian/Pacific Islander	1↓	---	---	---	---	---
American Indian/Alaska Native	12↑	217↓	46↑	45	9↓	#
Free/reduced-price school lunch						
Eligible	37↓	227↑	30↓	50	19↑	1
Not eligible	62↑	244	10	48↑	38	4↓

Average Score Gaps Between Selected Groups	Mathematics Scale Scores at Selected Percentiles																
<ul style="list-style-type: none"><li>In 2003, male students in South Dakota had an average score that was higher than that of female students (4 points). This performance gap was not significantly different from that of the Nation (3 points).</li><li>In 2003, White students had an average score that was higher than that of American Indian students (24 points). This performance gap is different from that of the Nation (19 points).</li><li>In 2003, White students had an average score that was higher than that of Hispanic students (18 points). This performance gap was not significantly different from that of the Nation (21 points).</li><li>In 2003, students who were not eligible for free/reduced-price school lunch had an average score that was higher than that of students who were eligible (16 points). This performance gap was narrower than that of the Nation (23 points).</li></ul>	<table><tr><th></th><th colspan="3">Scale Score Distribution</th></tr><tr><th></th><th>25<sup>th</sup> Percentile</th><th>50<sup>th</sup> Percentile</th><th>75<sup>th</sup> Percentile</th></tr><tr><td>South Dakota</td><td>221↑</td><td>239↑</td><td>255</td></tr><tr><td>Nation (Public)</td><td>215</td><td>235</td><td>254</td></tr></table> <p>An examination of scores at different percentiles on the 0–500 NAEP mathematics scale at each grade indicates how well students at lower, middle, and higher levels of the distribution performed. For example, the data above show that 75 percent of students in public schools nationally scored below 254, and 75 percent of students in South Dakota scored below 255.</p>		Scale Score Distribution				25 <sup>th</sup> Percentile	50 <sup>th</sup> Percentile	75 <sup>th</sup> Percentile	South Dakota	221↑	239↑	255	Nation (Public)	215	235	254
	Scale Score Distribution																
	25 <sup>th</sup> Percentile	50 <sup>th</sup> Percentile	75 <sup>th</sup> Percentile														
South Dakota	221↑	239↑	255														
Nation (Public)	215	235	254														

# The estimate rounds to zero.

--- Reporting standards not met; sample size insufficient to permit a reliable estimate.

\* Significantly different from South Dakota.

↑ Significantly higher than, ↓ lower than appropriate subgroup in the nation (public).

<sup>1</sup> Comparisons (higher/lower/not different) are based on statistical tests. The .05 level was used for testing statistical significance. Performance comparisons may be affected by differences in exclusion rates for students with disabilities and limited-English-proficient students in the NAEP samples and changes in sample sizes. NAEP sample sizes have increased in 2003 compared to previous years, resulting in smaller detectable differences than in previous assessments.

<sup>2</sup> "Jurisdictions" includes participating states and other jurisdictions (such as the District of Columbia and the Department of Defense Dependents Schools).

**NOTE:** Detail may not sum to totals because of rounding, and because the "Information not available" category for Free/reduced-price lunch is not displayed. Statistical comparisons are calculated on the basis of unrounded scale scores or percentages.

Visit <http://nces.ed.gov/nationsreportcard/states/> for additional results and detailed information.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2003 Mathematics Assessment.

